

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-XX-E
Exhibit Summary for Rider EE Exhibits and Factors

Residential Billing Factor

1	Costs to be Recovered for Year 2015 True up	Year 2015 Exhibit 1, Line 16	(133,412)	
2	Costs to be Recovered for Year 2016 True up	Year 2016 Exhibit 1, Line 16	(463,478)	
3	Costs to Be Recovered for Year 2017 True up	Year 2017, Exhibit 1, Line 16	397,793	
4	Costs to be Recovered for Year 2018 True Up	Year 2018, Exhibit 1, Line 16	5,752,227	
5	Total Cost to be Recovered Vintages Year 2015, Year 2016, Year 2017, and Year 2018 True-ups	Line 1 through line 4	\$ 5,553,130	
6	Projected SC Residential Sales (kWh) for rate period	R11 Exhibit 3, Page 1 Line 3	6,411,363,511	
7	Revenue Requirement True-up Component for Residential Rider EE (cents per kWh)	Line 5 / Line 6 * 100	0.0866	Application
8	Costs to be Recovered for Vintage Year 2017 Prospective Amounts	Year 2017 Exhibit 1 Line 16	745,549	
9	Costs to be Recovered for Vintage Year 2018 Prospective Amounts	Year 2018 Exhibit 1 Line 16	3,901,331	
10	Costs to be Recovered for Vintage Year 2019 Prospective Amounts	Year 2019 Exhibit 1 Line 1	2,326,543	
11	Costs to be Recovered for Vintage Year 2020 Prospective Amounts	Year 2020, Exhibit 1, pg 1 Line 12	25,955,113	
12	Less: Costs to be Recovered through Solar Access Fee	R11 Exhibit 3 page 2	517,452	
13	Total Prospective Components of Residential Revenue Requirement	Line 8 through Line 11 Less Line 12	\$ 32,411,083	
14	Projected SC Residential Sales (kWh) for rate period	R11 Exhibit 3, Page 1 Line 3	6,411,363,511	
15	Revenue Requirement Year Prospective Component for Residential Rider EE (cents per kWh)	Line 13 / Line 14 * 100	0.5055	Application
16	Total Revenue Requirement for Residential Rider EE	Line 5 + Line 13	\$ 37,964,213	
17	Total Revenue Requirement for Residential Rider EE (cents per kWh)	Line 7 + Line 15	0.5921	Application

Non-Residential Billing Factors for Rider 11 True-Up Components

18	Total Vintage Year 2015 True-Up EE Revenue Requirement - Vintage Year 2015 EE Participant	Year 2015 Exhibit 1 Line 27	\$ (24,291)	
19	Projected Vintage Year 2015 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 8	5,311,739,884	
20	EE Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Line 18/Line 19 * 100	0.0005	Application
21	Total Vintage Year 2015 DSM True Up Revenue Requirement - Vintage Year 2015 DSM Participant	Year 2015 Exhibit 1 Line 40	\$ (5,234)	
22	Projected Vintage Year 2015 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 9	6,028,573,210	
23	DSM Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Line 21/Line 22 * 100	0.0001	Application
24	Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2016 EE Participant	Year 2016 Exhibit 1 Line 27	\$ 866,701	
25	Projected Vintage Year 2016 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 10	5,020,899,764	
26	EE Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 24/Line 25 * 100	0.0173	Application
27	Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2016 DSM Participant	Year 2016 Exhibit 1 Line 40	\$ (5,634)	
28	Projected Vintage Year 2016 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 11	5,951,336,823	
29	DSM Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 27/Line 28 * 100	0.0001	Application
30	Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	\$ 1,916,003	
31	Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 12	4,924,955,503	
32	EE Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 30/Line 31 * 100	0.0389	Application
33	Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	\$ (129,452)	
34	Projected Vintage Year 2017 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 13	5,951,336,823	
35	DSM Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 33/Line 34 * 100	0.0022	Application
36	Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$ 1,752,931	
37	Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 14	4,878,266,122	
38	EE Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 36/Line 37 * 100	0.0359	Application
39	Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40	\$ 1,127,138	
40	Projected Vintage Year 2018 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 1 Line 15	5,966,243,960	
41	DSM Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 39/Line 40 * 100	0.0189	Application

Non-Residential Billing Factors for Rider 11 Prospective Components

42 Total Vintage Year 2017 Prospective EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1, Line 27	\$	1,199,656	
43 Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 12		4,924,955,503	
44 <i>EE Revenue Requirement Vintage Year 2017 Lost Revenues</i> Non-Residential Rider EE (cents per kWh)	Line 42/Line 43 * 100		0.0244	Application
45 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$	4,436,280	
46 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 14		4,878,266,122	
47 <i>EE Revenue Requirement Vintage Year 2018 Lost Revenues</i> Non-Residential Rider EE (cents per kWh)	Line 45/Line 46 * 100		0.0909	Application
48 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27	\$	5,929,385	
49 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 16		4,843,914,753	
50 <i>EE Revenue Requirement Vintage Year 2019 Lost Revenues</i> Non-Residential Rider EE (cents per kWh)	Line 48/Line 49 * 100		0.1224	
51 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7	\$	20,220,983	
52 Projected Vintage Year 2020 EE Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 18		4,843,914,753	
53 <i>EE Revenue Requirement Vintage Year 2020 Program Costs and Lost Revenues</i> Non-Residential Rider EE (cents per kWh)	Line 51/Line 52 * 100		0.4175	
54 Total Vintage Year 2020 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2020 Exhibit 1, Pg. 2, Line 16	\$	9,092,443	
55 Projected Vintage Year 2020 DSM Participants SC Non-Residential Sales (kwh) for rate period	R11 Exhibit 3, Page 2 Line 19		5,964,865,760	
56 <i>DSM Revenue Requirement Vintage Year 2020 Program Costs</i> Non-Residential Rider EE (cents per kWh)	Line 54/Line 55 * 100		0.1524	Application
<u><i>Total costs to be recovered in Rider 11 from Non-Residential Customers</i></u>				
57 Total Vintage Year 2015 True-Up EE Revenue Requirement - Vintage Year 2015 EE Participant	Year 2015 Exhibit 1 Line 27		(24,291)	
58 Total Vintage Year 2015 DSM True Up Revenue Requirement - Vintage Year 2015 DSM Participant	Year 2015 Exhibit 1 Line 40		(5,234)	
59 Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2016 EE Participant	Year 2016 Exhibit 1 Line 27		866,701	
60 Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2016 DSM Participant	Year 2016 Exhibit 1 Line 40		(5,634)	
61 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27		1,916,003	
62 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40		(129,452)	
63 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27		1,752,931	
64 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40		1,127,138	
65 Total Vintage Year 2017 Prospective EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1, Line 27		1,199,656	
66 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27		4,436,280	
67 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27		5,929,385	
68 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7		20,220,983	
69 Total Vintage Year 2020 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2020 Exhibit 1, Pg. 2, Line 16		9,092,443	
70 Total Non-Residential Revenue Requirements			46,376,910	Application

RIDER EE (SC)
ENERGY EFFICIENCY RIDER

APPLICABILITY (South Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the Public Service Commission of South Carolina (PSCSC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate. As of January 1, 2020, cost recovery under Rider EE consists of the four year term program, years 2015-2018, as well as rates under the continuation of that program for years 2019-2020 as outlined below. This rider applies to service supplied under all rate schedules except rate schedules OL, FL, PL, GI and NL for program years 2015-2020.

The Rider will recover the cost of Duke Energy Carolinas' Interruptible Service and Stand-By Generator programs ("Existing DSM Programs") based on the cost of bill credits and amounts paid to customers participating on these programs ("Program Costs"). Revenue requirements will be determined on a system basis and allocated to SC retail customer classes based on the class contribution to system peak demand.

GENERAL PROVISIONS

This Rider will recover the cost of the Company's energy efficiency and demand-side management programs beginning January 1, 2015, using the method approved by the PSCSC set forth in Order No. 2013-889.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be true-up on an annual basis as actual customer participation and actual kW and kWh impacts are verified. The true-up will reflect actual participation and EM&V results for the most recently completed vintage. If a customer participates in any vintage of programs, the customer is subject to the true-ups for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where:

- a. The Customer has notified the Company in writing that it elects to opt out and that the opt-out customer has implemented its own energy management system or has performed or had performed for it an energy audit or analysis within the three year period preceding the opt out request and has implemented or has plans for implementing the cost-effective energy efficiency measures recommended in that audit or analysis; and
- b. Electric service to the Customer must be provided under:
 1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes; or
 2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or greater in the billing months of the prior calendar year. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

For Customers who elect to opt out of Energy Efficiency Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the designated annual two-month enrollment period. For the Rider EE 2019 Program Year, the enrollment period begins November 1, 2019 and ends December 31, 2019.
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt-out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

RIDER EE (SC)
ENERGY EFFICIENCY RIDER

For Customers who elect to opt out of Demand-Side Management Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2020 through December 31, 2020 including revenue-related taxes and utility assessments are as follows:

Residential

Vintage 2015, 2016, 2017, 2018, 2019, 2020 0.5921¢ per kWh

Total Residential 0.5921¢ per kWh

Nonresidential

	<u>Energy Efficiency</u>	<u>Demand-Side Management</u>
2015 Vintage*	(0.0005)¢ per kWh	(0.0001)¢ per kWh
2016 Vintage*	0.0173¢ per kWh	(0.0001)¢ per kWh
2017 Vintage*	0.0633¢ per kWh	(0.0022)¢ per kWh
2018 Vintage*	0.1268¢ per kWh	0.0189¢ per kWh
2019 Vintage*	0.1224¢ per kWh	0.0000¢ per kWh
2020 Vintage*	0.4175¢ per kWh	0.1524¢ per kWh

Total Vintage
2015, 2016, 2017, 2018,
2019 and 2020 0.7468¢ per kWh 0.1689¢ per kWh

Total Nonresidential 0.9157¢ per kWh

* Not Applicable to Rate Schedules OL, FL, PL, GL, and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

Year 2015 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2015 - December 31, 2015
Docket No. 2019-XX-E
Calculation of Year 2015 True up of Shared Savings and Y1, Y2, Y3 and Y4 Lost Revenues

Residential Energy Efficiency Programs

Line		Rider 6 Year 2015 Estimate	Rider 7 Year 2 Lost Revenue Estimate	Rider 8 Year 3 Lost Revenue Estimate	True-up to be Collected in Rider 8	True-up to be Collected in Rider 9	Estimate of Year 4 Lost Revenue	True Up To be Collected in Rider 10	True Up to be Collected In Rider 11	Year 2015	
1	Residential EE Program Cost	\$ 11,501,369			\$ (1,186,566)	0		-	-	\$ 10,314,803	
2	Residential EE Earned Utility Incentive	426,243			1,436,395	183,068		0	(0)	2,045,706	
3	Total EE Program Cost and Incentive Components	11,927,612			249,829	183,068		0	(0)	12,360,510	1
4	Residential DSM Program Cost	3,913,647			(883,234)	0		-	-	3,030,413	
5	Residential DSM Earned Utility Incentive	1,037,481			(73,162)	(4,299)		(167)	-	959,853	
6	Total DSM Program Cost and Incentive Components	4,951,128			(956,396)	(4,299)		(167)	-	3,990,266	1
7	Residential Existing DSM Program Revenue Requirement	734,223			(157,796)			-	-	576,427	
8	Total EE/DSM Program Cost and Incentive Components	17,612,963			(864,363)	178,769		(167)	-	16,927,203	
9	Revenue-related taxes and regulatory fees factor	1.004517			1.004493	1.004493		1.004487	1.004450		
10	Total EE Program Cost and Incentive Revenue Requirement	17,692,521			(868,246)	179,573		(167)	-	17,003,680	
11	Residential Net Lost Revenues	3,125,109	1,655,188	2,664,819	914,189	1,079,208	1,143,018	33,505	3,749	10,618,785	2
12	Total Residential EE Revenue Requirement	20,817,630	1,655,188	2,664,819	45,942	1,258,781	1,143,018	33,338	3,749	27,622,464	
13	Estimated Revenues Collected									27,747,708	
14	Residential EE Revenue Requirement									\$ (125,244)	
15	Estimated Interest to be Recovered									(8,168)	
16	Estimated Residential EE/DSM Revenue Requirement True Up									\$ (133,412)	

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference	Rider 6 Year 2015 Estimate	Rider 7 Year 2 Lost Revenue Estimate	Rider 8 Year 3 Lost Revenue Estimate	True-up to be Collected in Rider 8	True-up to be Collected in Rider 9	Estimate of Year 4 Lost Revenue	True Up to be Collected in Rider 10	True Up to be Collected In Rider 11	Year 2015	
17	Non- Residential EE Program Cost	\$ 6,427,482			\$ 4,342,595	\$ (5)		\$ 0	\$ -	\$ 10,770,072	
18	Non-Residential EE Earned Utility Incentive	2,790,408			962,744	319,858		(229,135)	-	3,843,875	
19	Total EE Program Cost and Incentive Components	9,217,890			5,305,339	319,853		(229,135)	-	14,613,947	1
20	Revenue-related taxes and regulatory fees factor	1.004517			1.004493	1.004468		1.004487	1.004450		
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	9,259,527			5,329,175	321,282		(230,163)	-	14,679,822	
22	Non-Residential Net Lost Revenues	860,328	2,798,965	2,476,910	548,406	27,510	1,189,630	(25,649)	(1,315)	7,874,785	2
23	Total Non-Residential EE Revenue Requirement	10,119,855	2,798,965	2,476,910	5,877,581	348,792	1,189,630	(255,812)	(1,315)	22,554,607	
24	Estimated Revenues Collected									22,635,674	
25	Non-Residential EE Revenue Requirement									\$ (81,067)	
26	Estimated Interest to be Recovered									56,776	
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest									\$ (24,291)	
28	Projected SC Residential Sales (kWh)									5,311,739,884	
29	SC Non-Residential EE billing factor (Cents/kWh)									(0.0005)	

Non- Residential DSM Programs

		Year 2015 Revenue Requirement as Approved in Rider 9	True up to be Collected in Rider 10	True Up to be Collected in Rider 11	Year 2015 Revenue Requirement True up	
30	Non- Residential DSM Program Cost	\$ 4,928,506	\$ (0)	\$ -	\$ 4,928,506	
31	Non-Residential DSM Earned Utility Incentive	1,561,327	(272)	-	1,561,055	
32	Total DSM Program Cost and Incentive Components	6,489,833	(272)	-	6,489,561	1
33	Non- Residential Existing DSM Program Revenue Requirement	937,471	-	-	937,471	
34	Total DSM Revenue Requirement	7,427,304	(272)	-	7,427,032	
35	Revenue-related taxes and regulatory fees factor		1.004487	1.004450		
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	7,467,895	(273)	-	7,467,622	
37	Estimated Revenues Collected				7,476,877	
38	Non-Residential DSM Revenue Requirement				(9,255)	
39	Estimated Interest Due				4,021	
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest				\$ (5,234)	
41	Projected SC Non-Residential Sales (kWh)				6,028,573,210	
42	SC Non-Residential DSM billing factor				(0.0001)	

¹ Details outlining the change in the program cost and incentive component can be found in Year 2015 Exh 2. All amounts disallowed in the R8 ORS audit have been reflected in both year 2015 Exh 2 and Year 2015 Exh 1.

² Updated lost revenues by year can be found in R11 Exh 1 page 1. Year 2015 has been updated with most recent participation.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2015
Docket Number 2019-XX-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

[illegible]

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2015
Docket Number 2019-XX-E
Allocation Factor Year 2015

			MWH		
Sales Allocator - 2014					
1	NC Retail MWH Sales, at Generation	Company Records	59,567,575		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,026,080		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	81,593,655		
4	Greenwood Retail MWH Sales, at Generation	Company Records	54,449		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	81,648,104		
Allocation 1 to state based on kWh sales					
6	SC Retail	Line 2 / Line 5	26.97684%		
			NC MW	SC MW	Total MW
7	Residential	Company Records	4,994,057	1,459,126	6,453,183
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,518,371	2,373,045	8,891,416
9	Greenwood	Company Records	-	11,401	11,401
10	Total	Line 7 + Line 8+ Line 9	11,512,428	3,843,572	15,356,000
11	Wholesale Peak Demand	Company Records			1,211,771
12	Total System Peak Demand	Line 10 + Line 11			16,567,771
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	24.95553%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	9.50199%		
15	SC Non-residential	Line 8, SC / Line 10 Total	15.45354%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	8.80701%		
17	SC Non-residential	Line 8, SC / Line 12 Total	14.32326%		

Year 2016 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2016 - December 31, 2016
Docket No. 2019-XX-E
Calculation of Year 2016 True up of Shared Savings, Y1, Y2 and Y3 Lost Revenues Lost Revenues

Residential Energy Efficiency Programs			Rider 7	Rider 8 Year 2	True-up to be Collected	Rider 9 Year 3	True Up to be Collected	Rider 10 Year 4	True up to be	
Line			Year 2016 Estimate	Lost Revenue Estimate	in Rider 9	Lost Revenue Estimate	in Rider 10	Lost Revenue Estimate	Collected in Rider 11	Year 2016
1	Residential EE Program Cost	Year 2016 Exh 2 (B * D)	\$ 11,482,088		\$ 3,178,895		\$ (0)		\$ -	\$ 14,660,983
2	Residential EE Earned Utility Incentive	Year 2016 Exh 2 (C * D)	675,068		2,019,774		(22,174)		-	2,672,668
3	Total EE Program Cost and Incentive Components	Year 2016 Exh 2 Line 10	12,157,156		5,198,669		(22,174)		-	17,333,651
4	Residential DSM Program Cost	Year 2016 Exh 2 (B * E)	3,134,039		(116,010)		0		-	3,018,029
5	Residential DSM Earned Utility Incentive	Year 2016 Exh 2 (C * E)	1,152,056		(58,775)		(9,614)		(0)	1,083,667
6	Total DSM Program Cost and Incentive Components	Year 2016 Exh 2 Line 11	4,286,095		(174,785)		(9,614)		(0)	4,101,696
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2016 Exhibit 3 Line 3	673,781		(86,148)		-			587,633
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	17,117,032		4,937,736		(31,788)		(0)	22,022,980
9	Revenue-related taxes and regulatory fees factor		1.004517		1.004493		1.004487		1.004450	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	17,194,350		4,959,921		(31,931)		(0)	22,122,340
11	Residential Net Lost Revenues	R11 Exh 1 page 2 Line 36	3,954,894	2,211,965	510,764	2,628,500	361,245	1,401,449	10,107	11,078,925
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	21,149,244	2,211,965	5,470,685	2,628,500	329,315	1,401,449	10,107	33,201,265
13	Estimated Revenues Collected	R11 Exh 2 Line 2								33,634,996
14	Residential EE Revenue Requirement	Line 12 - Line 13								\$ (433,731)
15	Estimated Interest to be Recovered	R11 Exh 4 page 1 Line 25								(29,747)
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15								\$ (463,478)

See Exhibit A for rate

Non-Residential Energy Efficiency Programs			Rider 7	Rider 8 Year 2	True-up to be Collected	Rider 9 Year 3	True Up to be Collected	Rider 10 Year 4	True up to be	
		Reference	Year 2016 Estimate	Lost Revenue Estimate	in Rider 9	Lost Revenue Estimate	in Rider 10	Lost Revenue Estimate	Collected in Rider 11	Year 2016
17	Non- Residential EE Program Cost	Year 2016 Exh 2 (B * D) Line 24	\$ 13,492,828		\$ 4,824,922		\$ (1)		\$ -	\$ 18,317,749
18	Non-Residential EE Earned Utility Incentive	Year 2016 Exh 2 (C * D) Line 24	4,203,327		1,374,876		(132,190)		-	5,446,013
19	Total EE Program Cost and Incentive Components	Year 2016 Exh 2 Line 24	17,696,155		6,199,798		(132,191)		-	23,763,762
20	Revenue-related taxes and regulatory fees factor		1.004517		1.004493		1.004487		1.004450	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22	17,776,089		6,227,654		(132,784)		-	23,870,958
22	Non-Residential Net Lost Revenues	R11 Exh 1 page 2 Line 51	1,511,303	3,672,465	301,230	3,365,361	(532,294)	1,806,744	(2,579)	10,122,231
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	19,287,392	3,672,465	6,528,884	3,365,361	(665,078)	1,806,744	(2,579)	33,993,189
24	Estimated Revenues Collected	R11 Exh 2 Line 8								33,223,217
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24								\$ 769,971
26	Estimated Interest to be Recovered	R11 Exh 4 page 4 Line 12								96,730
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26								\$ 866,701
28	Projected SC Residential Sales (kWh)	R11 Exhibit 3 Line 10								5,020,899,764
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100								0.0173

Non- Residential DSM Programs			Rider 7	True-up to be Collected	True-up to be Collected	True up to be Collected	
			Year 2016 Estimate	in Rider 9	in Rider 10	in Rider 11	Year 2016 Revenue Requirement True up
30	Non- Residential DSM Program Cost	Year 2016 Exh 2 (B * D) Line 26	\$ 4,568,988	\$ (417,013)	\$ (0)		\$ 4,151,975
31	Non-Residential DSM Earned Utility Incentive	Year 2016 Exh 2 (C * D) Line 26	1,679,535	(175,482)	(13,227)	(0)	1,490,826
32	Total DSM Program Cost and Incentive Components	Year 2016 Exh 2 Line 26	6,248,523	(592,495)	(13,227)	(0)	5,642,801
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2016 Exh 4 Line 3	982,277	(173,856)	-		808,421
34	Total DSM Revenue Requirement	Line 32 + Line 33	7,230,800	(766,351)	(13,227)	(0)	6,451,222
35	Revenue-related taxes and regulatory fees factor		1.004517	1.004493	1.004487	1.004450	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35	7,263,462	(769,794)	(13,287)	(0)	6,480,381
37	Estimated Revenues Collected	R11 Exhibit 2 Line 17					6,486,453
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37					(6,072)
39	Estimated Interest Due	R11 Exh 4 Page 4 Line 25					438
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39					\$ (5,634)
41	Projected SC Non-Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 11					5,951,336,823
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100					(0.0001)

¹ Details outlining the change in the program cost and incentive component can be found in Year 2016 Exh 2.

² Updated lost revenues by year can be found in R11 Exh 1 page 2. Year 2016 has been updated with most recent participation. Year 4 Lost Revenues are shown as an estimate. They will be trued up in Rider 12.

Year 2016 Exhibit 3

Duke Energy Carolinas
For the Period January 1, 2016 - December 31, 2016
Docket Number 2019-XX-E
Allocation Factor Year 2016

			MWH		
Sales Allocator - 2015					
1	NC Retail MWH Sales, at Generation	Company Records	60,762,752		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,311,058		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	83,073,810		
4	Greenwood Retail MWH Sales, at Generation	Company Records	53,197		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	83,127,007		
Allocation 1 to state based on kWh sales					
6	SC Retail	Line 2 / Line 5	26.83972%		
			NC MW	SC MW	Total MW
7	Residential	Company Records	5,403,520	1,703,204	7,106,724
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,525,765	2,343,137	8,868,902
9	Greenwood	Company Records	-	12,374	12,374
10	Total	Line 7 + Line 8+ Line 9	11,929,285	4,058,715	15,988,000
11	Wholesale Peak Demand	Company Records			1,458,384
12	Total System Peak Demand	Line 10 + Line 11			17,446,384
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	25.30861%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.65301%		
15	SC Non-residential	Line 8, SC / Line 10 Total	14.65560%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.76250%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.43050%		

Year 2017 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2017 - December 31, 2017
Docket No. 2019-XX-E
Calculation of Year 2017 True up of Shared Savings, Y1 and Y2 Lost Revenues and Estimate Y4 Lost Revenues

Residential Energy Efficiency Programs

Line		Estimate of Year 4 Lost Revenues
1	Residential EE Program Cost	Year 2017 Exh 2 (B * D)
2	Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D)
3	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2017 Exh 2 (B * E)
5	Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * E)
6	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exhibit 3 Line 3
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R11 Exh 1 page 3 Line 62
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R11 Exh 2 Line 2
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R11 Exh 4 page 2 Line 12
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15

Rider 8 Year 2017 Estimate	Rider 9 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 10	Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 11	Year 2017
\$ 12,383,092		\$ 5,273,485		\$ -	\$ 17,656,577
1,384,934		2,008,972		(103,353)	3,290,553
13,768,026		7,282,457		(103,353)	20,947,131
2,997,324		251,290		-	3,248,614
1,117,352		68,938		-	1,186,290
4,114,676		320,228		-	4,434,904
576,427		22,800		-	599,227
18,459,129		7,625,485	-	(103,353)	25,981,262
1.004493		1.004487		1.004450	
18,542,066		7,659,701		(103,813)	26,097,954
4,457,989	4,202,002	(197,107)	3,175,509	(125,161)	11,513,231
23,000,055	4,202,002	7,462,594	3,175,509	(228,974)	37,611,185
					\$ (311,126)
					708,919
					\$ 397,793

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference	Estimate of Year 4 Lost Revenues
17	Non- Residential EE Program Cost	Year 2017 Exh 2 (B * D) Line 24
18	Non-Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 24
19	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 24
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22
22	Non-Residential Net Lost Revenues	R11 Exh 1 page 3 Line 78
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R11 Exh 2 Line 8
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R11 Exh 4 page 5 Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28	Projected SC Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 12
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100

Rider 8 Year 2017 Estimate	Rider 9 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 10	Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 11	Year 2017
\$ 14,343,825		\$ 12,031,371		\$ -	\$ 26,375,196
4,131,457		3,136,348		1,261,167	8,528,972
18,475,282		15,167,719		1,261,167	34,904,168
1.004493		1.004487		1.004450	
18,558,291		15,235,776		1,266,779	35,060,847
2,062,368	9,466,867	(2,154,791)	5,864,726	562,677	15,801,847
20,620,659	9,466,867	13,080,985	5,864,726	1,829,456	50,862,694
					49,836,661
					\$ 1,026,033
					889,970
					\$ 1,916,003
					4,924,955,503
					0.0389

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2017 Exh 2 (B * D) Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 26
32	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 26
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exh 4 Line 3
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R11 Exhibit 2 Line 17
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R11 Exh 4 Page 5 Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 13
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100

Rider 8 Year 2017 Estimate	True-up to be Collected in Rider 10	True-up to be Collected in Rider 11	Year 2017 Revenue Requirement True up
\$ 4,874,691	\$ (377,480)	\$ -	\$ 4,497,211
1,817,203	(174,966)	-	1,642,237
6,691,894	(552,446)	-	6,139,448
937,471	(107,933)		829,538
7,629,365	(660,379)	-	6,968,986
1.004517	1.004487	1.004450	
7,663,827	(663,342)	-	7,000,484
			7,137,618
			(137,133)
			7,682
			\$ (129,452)
			5,951,336,823
			(0.0022)

¹ Details outlining the change in the program cost and incentive component can be found in Year 2017 Exh 2.

² Updated lost revenues by year can be found in R11 Exh 1 page 3. Year 2017 has been updated with most recent participation. Year 3 Lost Revenues are shown as an estimate. They will be trued up in Rider 12.

Year 2017 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2019-XX-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

[illegible]

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2017 Exhibit 3

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2019-XX-E
Allocation Factor Year 2017

			<u>MWH</u>			
Sales Allocator - 2016						
1	NC Retail MWH Sales, at Generation	Company Records	60,219,051			
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,437,625			
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	82,656,676			
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,859			
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	82,708,535			
Allocation 1 to state based on kWh sales						
6	SC Retail	Line 2 / Line 5	27.12855%			
Demand Allocators - 2016				<u>NC MW</u>	<u>SC MW</u>	<u>Total MW</u>
7	Residential	Company Records	5,545,784	1,791,145	7,336,929	
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,573,854	2,479,566	9,053,420	
9	Greenwood	Company Records	-	13,651	13,651	
10	Total	Line 7 + Line 8+ Line 9	12,119,638	4,284,362	16,404,000	
11	Wholesale Peak Demand	Company Records			1,683,179	
12	Total System Peak Demand	Line 10 + Line 11			18,087,179	
Allocation 2 to state based on peak demand						
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.03457%			
Allocation 3 SC res vs non-res Peak Demand to retail system peak						
14	SC Residential	Line 7,SC / Line 10 Total	10.91895%			
15	SC Non-residential	Line 8, SC / Line 10 Total	15.11562%			
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM						
16	SC Residential	Line 7,SC / Line 12 Total	9.90284%			
17	SC Non-residential	Line 8, SC / Line 12 Total	13.70897%			

Year 2018 Exhibit 1

Duke Energy Carolinas

For the period January 1, 2018 - December 31, 2018

Docket No. 2019-XX-E

Calculation of Year 2018 True up of Shared Savings and Y1 Lost Revenues and Estimate Y2 and Y3 Lost Revenues

Residential Energy Efficiency Programs

Line		
1	Residential EE Program Cost	Year 2018 Exh 2 (B * D)
2	Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D)
3	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2018 Exh 2 (B * E)
5	Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (C * E)
6	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exhibit 3 Line 3
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R11 Exh 1 page 4 Line 84
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R11 Exh 2 Line 5
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R11 Exh 4 page 2 Line 12
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15

Estimate of Year 3 Lost Revenues	
\$	3,901,331
	3,901,331
\$	3,901,331
\$	3,901,331

Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Year 2018
\$ 15,283,486		\$ 5,847,052	\$ 21,130,538
2,823,195		2,039,002	4,862,197
18,106,681		7,886,054	25,992,735
3,121,492		(37,195)	3,084,297
1,299,438		(120,543)	1,178,895
4,420,930		(157,739)	4,263,191
587,633		(69,105)	518,528
23,115,244		7,659,211	30,774,455
1.004468		1.004450	
23,218,523		7,693,293	30,911,815
6,835,885	2,340,939	(1,094,978)	8,081,846
30,054,408	2,340,939	6,598,315	38,993,662
			33,785,855
			\$ 5,207,807
			544,420
			\$ 5,752,227

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference
17 Non- Residential EE Program Cost	Year 2018 Exh 2 (B * D) Line 24
18 Non-Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D) Line 24
19 Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 24
20 Revenue-related taxes and regulatory fees factor	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22
22 Non-Residential Net Lost Revenues	R11 Exh 1 page 4 Line 100
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24 Estimated Revenues Collected	R11 Exh 2 Line 14
25 Non-Residential EE Revenue Requirement	Line 23 + Line 24
26 Estimated Interest to be Recovered	R11 Exh 4 page 6 Line 12
27 Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28 Projected SC Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 14
29 SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100

Estimate of Year 3 Lost Revenues	
\$	4,436,280
	4,436,280
\$	4,436,280
\$	4,436,280
	4,878,266,122
	0.0909

Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Year 2018
\$ 14,905,045		\$ (991,072)	\$ 13,913,973
5,806,479		1,107,413	6,913,892
20,711,524		116,341	20,827,865
1.004468		1.004450	
20,804,063		116,858	20,920,922
2,013,322	4,168,069	510,686	6,692,077
22,817,385	4,168,069	627,544	27,612,998
			26,105,951
			\$ 1,507,047
			245,884
			\$ 1,752,931
			4,878,266,122
			0.0359

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2018 Exh 2 (B * D) Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (C * D) Line 26
32	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 26
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exh 3 Line 3
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R11 Exhibit 2 Line 23
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R11 Exh 4 Page 6 Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R11 Exhibit 3 Page 1 Line 15
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100

Rider 9	True-up to be Collected	
Year 2018 Estimate	in Rider 11	Year 2018 Revenue Requirement True up
\$ 4,294,311	\$ 594,878	\$ 4,889,189
1,787,668	81,101	1,868,769
6,081,979	675,980	6,757,959
808,421	13,543	821,964
6,890,400	689,523	7,579,923
1.004468	1.004450	
6,921,186	692,591	7,613,777
		6,613,105
		1,000,672
		126,465
		\$ 1,127,138
		5,966,243,960
		0.0189

¹ Details outlining the change in the program cost and incentive component can be found in Year 2018 Exh 2.

² Updated lost revenues by year can be found in R11 Exh 1 page 4. Year 2018 has been updated with most recent participation. Year 2 Lost Revenues are shown as an estimate. They will be trued up in Rider 12.

Year 2018 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-XX-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

[illegible]

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2018 Exhibit 3

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-XX-E
Actual Existing DSM Program Costs - Year 2018

		Year 2018	
1 Actual total IS/SG credits to be paid for native load programs	Line 9	\$ 5,564,267	
		Residential	Non-residential
2 SC retail allocation factor - system peak demand	Year 2018 Exhibit 4, Line 16, 17	9.31889%	14.77219%
3 SC retail share IS/SG program costs	Line 1 * Line 2	\$ 518,528	\$ 821,964

PROGRAM	Jan - Dec 2018 Credits Paid
4 INTERRUPTIBLE SERVICE CREDITS	\$ 3,752,939
5 STANDBY GENERATOR PAYMENTS	332,085
6 WHOLESALE A/C LOAD CONTROL CREDITS	341,504
7 WHOLESALE INTERRUPTIBLE SERVICE CREDITS	1,181,392
8 Wholesale Penalties	(43,652)
9 TOTAL CREDITS	<u>\$ 5,564,267</u>

Note: Regulatory fee to be added to total revenue requirement on Vintage Year Exhibit.

Year 2018 Exhibit 4

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-XX-E
Allocation Factor Year 2018

			MWH		
Sales Allocator - 2017					
1	NC Retail MWH Sales, at Generation	Company Records	58,534,269		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	21,917,798		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	80,452,067		
4	Greenwood Retail MWH Sales, at Generation	Company Records	48,295		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	80,500,362		
Allocation 1 to state based on kWh sales					
6	SC Retail	Line 2 / Line 5	27.22696%		
			NC MW	SC MW	Total MW
7	Residential	Company Records	5,078,308	1,606,176	6,684,484
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,549,145	2,546,091	9,095,236
9	Greenwood	Company Records	-	12,280	12,280
10	Total	Line 7 + Line 8+ Line 9	11,627,453	4,164,547	15,792,000
11	Wholesale Peak Demand	Company Records			1,443,703
12	Total System Peak Demand	Line 10 + Line 11			17,235,703
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.29348%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.17082%		
15	SC Non-residential	Line 8, SC / Line 10 Total	16.12266%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.31889%		
17	SC Non-residential	Line 8, SC / Line 12 Total	14.77219%		

Year 2018 Exhibit 5

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-xx-E
Actual Program Costs - Year 2018

	System Costs		
	Months of January 1,		
	2018 - December 31,		
	2018	Residential	Non-Residential
Energy Efficiency (EE) Programs:			
1 My Home Energy Report	\$ 13,220,883	13,220,883	
2 Energy Assessments	2,827,387	2,827,387	
3 Residential – Smart \$aver Energy Efficiency Program	6,936,157	6,936,157	
4 Energy Efficient Appliances and Devices	42,579,851	42,579,851	
Income Qualified Energy Efficiency and Weatherization			
5 Assistance	6,465,702	6,465,702	
6 Multi-Family Energy Efficiency	3,594,938	3,594,938	
7 Appliance Recycle Program	-	-	
8 Energy Efficiency Education	1,983,960	1,983,960	
9 Nonresidential Smart Saver Performance Incentives	475,901		475,901
10 Smart Saver Custom Technical Assessments	403,829		403,829
11 Smart Saver Custom	6,039,114		6,039,114
12 Smart Saver Efficient Food Service Products	234,351		234,351
13 Smart Saver Efficient HVAC Products	1,615,564		1,615,564
14 Smart Saver Efficient Lighting Products	25,800,299		25,800,299
15 Nonresidential Energy Efficient Pumps and Drives	276,603		276,603
16 Nonresidential Energy Efficient ITEE	36,197		36,197
17 Nonresidential Energy Efficient Process Equipment Products	67,100		67,100
18 Small Business Energy Saver	15,939,918		15,939,918
19 Smart Energy in Offices	214,783		214,783
20 Business Energy Report	-		-
21 Subtotal EE Program Costs	\$ 128,712,538	\$ 77,608,879	\$ 51,103,659
Demand-Side Management (DSM) Programs:			
22 Power Manager	\$ 14,383,845	\$ 14,383,845	
23 EnergyWise for Business	3,053,243		3,053,243
24 Power Share	12,887,867		12,887,867
25 Subtotal DSM Program Costs	\$ 30,324,955	\$ 14,383,845	\$ 15,941,110
26 Total EE & DSM Program Costs - Year 2018	<u>\$ 159,037,493</u>	<u>\$ 91,992,724</u>	<u>\$ 67,044,769</u>

Exhibit 6

Duke Energy Carolinas
Changes to DSM/EE Cost Recovery Vintage 2018 True Up January 1, 2018 - December 31, 2018
Changes from Prior Filing Due to Application of M&V and Participation
System kWh and kW Impacts Net Free Riders at the Plant

Residential Programs	Filed in Docket		Filed in Docket		Overall Variance		2017-65-E	2019-XXXX-E	Delta	Variance attributable to Participation		Variance attributable to Mix of		Variance attributable to		Sum of Variances	
	2017-65-E		2019-XXXX-E						Delta			Measures		EM&V			
	kWh	kW	kWh	kW	kWh	kW				kWh	kW	kWh	kW	kWh	kW	kWh	kW
Program Name									Participation								
Energy Efficiency Education Program for Schools	5,604,364	1,316	4,889,354	1,148	(715,010)	(168)	3,533,486	10,242,945	6,709,459	(715,010)	(168)	-	-	-	-	(715,010)	(168)
Energy Efficient Appliances and Devices	97,729,231	11,726	195,316,844	32,803	97,587,613	21,077	9,480	25,293	15,813	146,460,881	18,352	7,685,639	14	(56,558,907)	2,711	97,587,613	21,077
Residential – Smart Saver Energy Efficiency Program	5,359,616	1,577	6,727,882	1,644	1,368,266	67	10,426	10,681	255	3,844,491	1,175	(1,277,881)	(581)	(1,198,344)	(527)	1,368,266	67
Income Qualified Energy Efficiency and Weatherization Assistance	5,287,477	820	5,211,991	726	(75,487)	(95)	370,882	430,474	59,592	(557,065)	(80)	-	-	481,578	(15)	(75,487)	(95)
Multi-Family Energy Efficiency	22,582,141	2,197	21,309,576	2,167	(1,272,565)	(30)	59,080	55,978	(3,102)	(2,699,719)	(204)	1,427,154	174	-	-	(1,272,565)	(30)
Energy Assessments	7,435,992	1,145	7,716,668	929	280,676	(216)	1,354,138	1,432,263	78,125	984,660	172	-	-	(703,984)	(388)	280,676	(216)
My Home Energy Report	304,386,954	77,277	320,613,567	81,409	16,226,613	4,132	473,837	504,071	30,234	16,226,613	4,132	-	-	-	-	16,226,613	4,132
PowerManager	-	503,304	-	535,418	-	32,114	-	-	-	-	32,114	-	-	-	-	-	32,114
Residential Programs Total	448,385,775	599,362	561,785,881	656,243	113,400,106	56,881	5,811,330	12,701,705	6,890,375	163,544,851	55,493	7,834,912	(393)	(57,979,657)	1,782	113,400,106	56,881

Non-Residential Programs	Filed in Docket		Filed in Docket		Overall Variance		2017-65-E	2019-XXXX-E	Delta	Variance attributable to Participation		Variance attributable to Mix of		Variance attributable to		Sum of Variances	
	2017-65-E		2019-XXXX-E						Delta			Measures		EM&V			
	kWh	kW	kWh	kW	kWh	kW				kWh	kW	kWh	kW	kWh	kW	kWh	kW
Program Name									Participation								
Non Residential Smart Saver Custom Technical Assessments	20,322,216	2,320	83,588	13	(20,238,628)	(2,307)	62,136	23,345	(38,791)	-	-	(20,238,628)	(2,307)	-	-	(20,238,628)	(2,307)
Non Residential Smart Saver Custom	95,315,609	10,881	30,333,040	4,054	(64,982,570)	(6,827)	453	2,910	2,457	-	-	(64,982,570)	(6,827)	-	-	(64,982,570)	(6,827)
Non Residential Smart Saver Energy Efficient Food Service Products	817,239	120	1,151,114	106	333,875	(14)	5,124,564	2,189,324	(2,935,240)	723,121	46	421,245	48	(810,491)	(107)	333,875	(14)
Non Residential Smart Saver Energy Efficient HVAC Products	4,345,576	2,007	2,908,386	893	(1,437,191)	(1,113)	14,535,813	2,854,234	(11,681,579)	23,758	158	(973,126)	(1,102)	(487,822)	(169)	(1,437,191)	(1,113)
Non Residential Smart Saver Energy Efficient Lighting Products	92,350,939	12,435	178,360,156	31,537	86,009,217	19,102	2,750	2,480	(270)	53,261,333	4,160	(2,625,547)	291	35,373,431	14,651	86,009,217	19,102
Non Residential Energy Efficient Pumps and Drives Products	2,067,770	305	2,669,016	421	601,246	115	15,935	280	(15,655)	11,845	(1)	(253,717)	(17)	843,118	133	601,246	115
Non Residential Energy Efficient ITEE	3,823,152	0	17,639	-	(3,805,513)	(0)	1,657	3,339	1,682	(1,128,795)	-	(2,673,638)	(0)	(3,080)	-	(3,805,513)	(0)
Non Residential Energy Efficient Process Equipment Products	316,290	31	331,222	75	14,932	44	6,174,765	118	(6,174,647)	218,900	22	(222,046)	(20)	18,078	42	14,932	44
Non Residential Smart Saver Performance Incentive	5,706,017	651	3,271,186	168	(2,434,832)	(484)	47,462,400	4,194,003	(43,268,397)	-	-	(2,434,832)	(484)	-	-	(2,434,832)	(484)
Smart Energy in Offices	41,339,434	8,604	1,488,592	310	(39,850,843)	(8,294)	75,800,000	73,493,029	(2,306,971)	(10,380,698)	(2,161)	(27,305,788)	(5,683)	(2,164,357)	(450)	(39,850,843)	(8,294)
Small Business Energy Saver	93,135,919	17,124	76,696,523	13,374	(16,439,395)	(3,750)	14,013	-	(14,013)	(2,718,672)	(2,304)	-	-	(13,720,723)	(1,447)	(16,439,395)	(3,750)
Business Energy Report	5,051,658	353	-	-	(5,051,658)	(353)	6,863	11,462	4,598	(5,051,658)	(353)	-	-	-	-	(5,051,658)	(353)
EnergyWise for Business	3,530,072	17,034	2,498,948	8,117	(1,031,124)	(8,917)	365,308	313,157	(52,151)	3,560,876	4,835	-	-	(4,592,000)	(13,752)	(1,031,124)	(8,917)
PowerShare	-	388,025	-	332,631	-	(55,394)	-	-	-	-	(55,394)	-	-	-	-	-	(55,394)
Non-Residential Programs Total	368,121,892	459,890	299,809,409	391,698	(68,312,483)	(68,192)	149,566,656	83,087,680	(66,478,976)	38,520,009	(50,992)	(121,288,645)	(16,100)	14,456,153	(1,100)	(68,312,483)	(68,192)
Total Residential and Non-Residential Programs	816,507,667	1,059,251	861,595,290	1,047,941	45,087,623	(11,310)	155,377,986	95,789,386	(59,588,600)	202,064,860	4,501	(113,453,734)	(16,493)	(43,523,504)	682	45,087,623	(11,310)

NOTE - The actual per unit impacts are reflective of the following EM&V reports:

Program Name As Filed	Docket	Report Reference	Effective Date
Non Residential Smart Saver Energy Efficient Food Service Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver® Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Smart Saver Energy Efficient HVAC Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver® Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Smart Saver Energy Efficient Lighting Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver® Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Energy Efficient Pumps and Drives Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver® Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Energy Efficient ITEE	2019-XX-E	Exhibit B - Nonresidential Smart Saver® Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Non Residential Energy Efficient Process Equipment Products	2019-XX-E	Exhibit B - Nonresidential Smart Saver® Energy Efficient Products and Assessment – Prescriptive: 2015-2017	3/1/2017
Energy Efficient Appliances and Devices	2019-XX-E	Exhibit C - Residential Energy Efficient Appliances and Devices – Retail Lighting: 2016-2017	4/1/2017
Residential – Smart Saver Energy Efficiency Program	2019-XX-E	Exhibit F - Residential Smart Saver® Energy Efficiency - HVAC: 2016-2017	10/1/2017
Income Qualified EE and Weatherization Program	2019-XX-E	Exhibit G - Income-Qualified Energy Efficiency and Weatherization Assistance: 2015-2016	1/1/2015
Small Business Energy Saver	2019-XX-E	Exhibit H - Small Business Energy Saver: 2016-2017:	7/1/2017
Energy Efficient Appliances and Devices	2019-XX-E	Exhibit J - Residential Energy Efficient Appliances and Devices – Online Savings Store: 2015-2017	2/1/2018
Energy Assessments	2019-XX-E	Exhibit K - Duke Energy Carolinas Residential Energy Assessments Program: 2016-2017	5/1/2017
EnergyWise for Business	2019-XX-E	Exhibit L - EnergyWise for Business: 2017	1/1/2018

Year 2019 Exhibit 1

Duke Energy Carolinas
Docket No. 2019-xx-E
Calculation of Year 2019 Estimate of Lost Revenues Year 2

Residential Energy Efficiency Programs		
Line	Reference	Year 2 Projections
1 Residential Net Lost Revenues - Year 2	R11 Exh 1 page 4 Line 115	\$2,326,543
2 Projected SC Residential Sales (kWh)	R11 Exh 3 Page 1 Line 3	6,411,363,511
3 SC Residential EE Billing Factor (Cents/kWh)	Line 1 / Line 2	0.0363
 Non-Residential Energy Efficiency Programs		
Line	Reference	Year 2 Projections
4 Non-Residential Net Lost Revenues - Year 2	R11 Exh 1 page 4 Line 129	\$5,929,385
5 Projected SC Non-Residential EE Sales (kWh)	R11 Exh 3 Page 1 Line 16	4,843,914,753
6 SC Non-Residential EE Billing Factor (Cents/kWh)	Line 6 / Line 7	0.1224

Year 2020 Exhibit 1, Page 1

Duke Energy Carolinas
Docket No. 2019-xx-E
Calculation of Year 2020 Estimate of Earned Utility Savings and Lost Revenues Year 1

Energy Efficiency Programs		
Line	Reference	Year 1
1 Residential EE Program Cost	Year 2020 Exh 2 (B * E) Line 10	\$12,563,185
2 Residential EE Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 10	1,391,140
3 Total EE Program Cost and Incentive Components	Year 2020 Exh 2 Line 10	13,954,325
4 Residential DSM Program Cost	Year 2020 Exh 2 (B * E) Line 11	3,872,361
5 Residential DSM Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 11	1,319,578
6 Total DSM Program Cost and Incentive Components	Year 2020 Exh 2 Line 11	5,191,939
7 Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exhibit 3 Line 3	518,528
8 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	19,664,792
9 Revenue-related taxes and regulatory fees factor		1.004450
10 Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	19,752,296
11 Residential Net Lost Revenues	R11 Exh 1 page 6 Line 257	6,202,817
12 Total Residential EE Revenue Requirement	Line 10 + Line 11	25,955,113
13 Projected SC Residential Sales (kWh)	R11 Exh 3 Page 1 Line 3	6,411,363,511
14 SC Residential EE Billing Factor (Cents/kWh)	Line 12 / Line 13*100	0.4048

Duke Energy Carolinas
Docket No. 2019-XX-E
Calculation of Year 2020 Estimated Earned Utility Savings and Year 1 Lost Revenue Estimate

Non-Residential Energy Efficiency Programs

Line	Reference	Year 1
1 Non- Residential EE Program Cost	Year 2020 Exh 2 (B * E) Line 25	\$14,119,560
2 Non-Residential EE Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 25	4,092,959
3 Total EE Program Cost and Incentive Components	Year 2020 Exh 2 Line 25	18,212,519
4 Revenue-related taxes and regulatory fees factor		1.0044498
5 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 3 * Line 4	18,293,562
6 Non-Residential Net Lost Revenues	R11 Exh 1 p 6 Line 278	1,927,422
7 Total Non-Residential EE Revenue Requirement	Line 5 + Line 6	20,220,983
8 Projected SC Non-Residential Sales (kWh)	R11 Exh 3 Page 1 Line 18	4,843,914,753
9 SC Non-Residential EE billing factor (Cents/kWh)	Line 7 / Line 8 *100	0.4175

Non- Residential DSM Programs

		Year 1
10 Non-Residential DSM Program Cost	Year 2020 Exh 2 (B * E) Line 26	\$6,138,419
11 Non-Residential DSM Earned Utility Incentive	Year 2020 Exh 2 (C * E) Line 26	2,091,779
12 Total Non-Residential DSM Program Cost and Incentive Components	Year 2020 Exh 2 Line 26	8,230,198
13 Non-Residential Existing DSM Program Revenue Requirement	Year 2018 Exhibit 3 Line 3	821,964
14 Total Non-Residential SAW & Existing DSM Program Revenue Requirement	Line 12 + Line 13	9,052,163
15 Revenue-related taxes and regulatory fees factor		1.0044498
16 Total Non-Residential DSM Revenue Requirement	Line 14 * Line 15	9,092,443
17 Projected SC Non-Residential Sales (kWh)	R11 Exh 3 p 1 Line 19	5,964,865,760
18 SC Non-Residential DSM billing factor	Line 16 / Line 17 * 100	0.1524

Year 2020 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2020 - December 31, 2020
Docket Number 2019-XX-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

[illegible]

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2020 - December 31, 2020
Docket Number 2019-XX-E
Allocation Factor Estimate Year 2020

			MWH			
				NC MW	SC MW	Total MW
Sales Allocator - 2017						
1	NC Retail MWH Sales, at Generation	Company Records	58,534,269			
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	21,917,798			
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	80,452,067			
4	Greenwood Retail MWH Sales, at Generation	Company Records	48,295			
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	80,500,362			
Allocation 1 to state based on kWh sales						
6	SC Retail	Line 2 / Line 5	27.22696%			
Demand Allocators - 2017						
7	Residential	Company Records	5,078,308	1,606,176	6,684,484	
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,549,145	2,546,091	9,095,236	
9	Greenwood	Company Records	-	12,280	12,280	
10	Total	Line 7 + Line 8+ Line 9	11,627,453	4,164,547	15,792,000	
11	Wholesale Peak Demand	Company Records			1,443,703	
12	Total System Peak Demand	Line 10 + Line 11			17,235,703	
Allocation 2 to state based on peak demand						
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.29348%			
Allocation 3 SC res vs non-res Peak Demand to retail system peak						
14	SC Residential	Line 7,SC / Line 10 Total	10.17082%			
15	SC Non-residential	Line 8, SC / Line 10 Total	16.12266%			
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM						
16	SC Residential	Line 7,SC / Line 12 Total	9.31889%			
17	SC Non-residential	Line 8, SC / Line 12 Total	14.77219%			

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-xx-E
South Carolina Lost Revenues Vintage Year 2014-2020

Year 2015		2015 (1/2 year)	2016 ^(a)	2017 ^(a)	2018	2019	2020	Total
Residential								
1	Appliance Recycling	\$ 42,084	\$ 78,530	\$ 78,299	\$ 36,508			\$ 235,421
2	Energy Efficiency Education Program for Schools	22,398	64,563	64,374	42,207			193,543
3	Energy Efficient Appliances and Devices	1,243,191	2,082,649	2,076,546	841,756			6,244,143
4	HVAC Energy Efficiency	38,085	68,587	68,387	30,579			205,637
5	Income Qualified Energy Efficiency and Weatherization Assistance	27,717	49,210	49,066	21,545			147,539
6	Multi-Family Energy Efficiency	83,286	174,419	173,914	91,399			523,019
7	My Home Energy Report	2,494,338	-	-	-			2,494,338
8	Energy Assessments	112,623	191,847	191,282	79,395			575,146
9	Total Lost Revenues	\$ 4,063,721	\$ 2,709,806	\$ 2,701,867	\$ 1,143,389			\$ 10,618,785
10	Found Residential Revenue	-	-	-	-			-
11	Net Lost Residential Revenue	\$ 4,063,721	\$ 2,709,806	\$ 2,701,867	\$ 1,143,389			\$ 10,618,785
Non-Residential								
12	Non Residential Smart Saver Custom Technical Assessments	\$ -	\$ -	\$ -	\$ -			\$ -
13	Non Residential Smart Saver Custom	161,118	297,731	298,222	138,298			895,369
14	Non Residential Smart Saver Energy Efficient Food Service Products	8,672	14,608	14,626	5,914			43,821
15	Non Residential Smart Saver Energy Efficient HVAC Products	25,013	41,466	41,605	16,560			124,645
16	Non Residential Smart Saver Energy Efficient Lighting Products	503,262	837,360	810,323	320,574			2,471,520
17	Non Residential Energy Efficient Pumps and Drives Products	21,482	30,380	30,466	8,902			91,230
18	Non Residential Energy Efficient ITEE	86	99	99	13			296
19	Non Residential Energy Efficient Process Equipment Products	-	-	-	-			-
20	Small Business Energy Saver	687,783	1,384,241	1,385,040	692,603			4,149,667
21	Smart Energy in Offices	70,504	24,200	-	-			94,705
22	EnergyWise for Business	112	1,342	1,342	1,218			4,014
23	Total Lost Revenues	\$ 1,478,033	\$ 2,631,427	\$ 2,581,724	\$ 1,184,082			\$ 7,875,265
24	Found Non-Residential Revenue	-	72	72	335			480
25	Net Lost Residential Revenue	1,478,033	2,631,354	2,581,651	1,183,746			7,874,785

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific program participation.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-xx-E
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 11 Exhibit 1, Page 2

Year 2016		2015	2016 (1/2 year) ^(a)	2017 ^(a)	2018	2019	2020	Total
Residential								
26	Appliance Recycling		\$ 1,156	\$ 2,445	\$ 2,453	\$ 1,293		\$ 7,347
27	Energy Efficiency Education Program for Schools		49,651	113,539	113,901	64,034		341,126
28	Energy Efficient Appliances and Devices		912,502	1,984,438	1,990,624	1,074,622		5,962,187
29	HVAC Energy Efficiency		25,732	65,424	65,633	39,768		196,557
30	Income Qualified Energy Efficiency and Weatherization Assistance		30,781	65,434	65,637	34,744		196,596
31	Multi-Family Energy Efficiency		107,545	232,892	233,717	125,659		699,814
32	My Home Energy Report		3,249,461	-	-	-		3,249,461
33	Energy Assessments		80,627	141,718	142,164	61,328		425,837
34	Total Lost Revenues		\$ 4,457,455	\$ 2,605,892	\$ 2,614,130	\$ 1,401,449		\$ 11,078,925
35	Found Residential Revenue		-	-	-	-		-
36	Net Lost Residential Revenue		\$ 4,457,455	\$ 2,605,892	\$ 2,614,130	\$ 1,401,449		\$ 11,078,925
Non-Residential								
		2015	2016 (1/2 year) ^(a)	2017 ^(a)	2018	2019	2020	Total
37	Smart Saver® for Non-Residential Custom Assessments		\$ 12,263	\$ 71,091	\$ 73,627	\$ 58,868		\$ 215,849
38	Smart Saver® for Non-Residential Custom Incentives		101,444	182,977	184,357	81,340		550,117
39	Smart Saver® for Non-Residential Customers - Energy Efficient Food Service Products		23,846	40,687	41,424	72,782		178,739
40	Smart Saver® for Non-Residential Customers - HVAC		804,138	1,793,295	1,779,130	16,890		4,393,453
41	Smart Saver® for Non-Residential Customers - Energy Efficient Lighting Products		9,796	23,804	24,007	981,631		1,039,238
42	Smart Saver® for Non-Residential Customers - Pumps and Drives Products		34	79	78	13,977		14,169
43	Smart Saver® for Non-Residential Customers - Energy Efficient ITEE		1,882	2,731	2,725	45		7,383
44	Smart Saver® for Non-Residential Customers - Energy Efficient Process Equipment Products		-	-	-	851		851
45	Smart Saver® for Non-Residential Customers - Small Business Energy Saver		559,122	1,134,713	1,129,191	575,153		3,398,179
46	Smart Saver® for Non-Residential Customers - Smart Energy in Office		70,822	24,541	-	-		95,363
47	Business Energy Report		-	-	-	-		-
48	EnergyWise for Business		5,895	11,102	10,998	5,207		33,203
49	Total Lost Revenues		\$ 1,608,722	\$ 3,377,313	\$ 3,337,388	\$ 1,806,744		\$ 10,130,167
50	Found Non-Residential Revenue		2,631	2,404	2,404	497		7,936
51	Net Lost Residential Revenue		1,606,091	3,374,909	3,334,984	1,806,247		10,122,231

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-xx-E
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 11 Exhibit 1, Page 3

Year 2017		2015	2016	2017 (1/2 year) ^(a)	2018	2019	2020	Total
Residential								
52	Appliance Recycling			\$ -	\$ -	\$ -	\$ -	\$ -
53	Energy Efficiency Education Program for Schools			55,350	100,919	100,612	23,136	280,017
54	Energy Efficient Appliances and Devices			1,246,147	2,449,602	2,521,429	611,398	6,828,576
55	Residential – Smart Saver Energy Efficiency Program			54,559	95,263	111,714	20,656	282,192
56	Income Qualified Energy Efficiency and Weatherization Assistance			45,063	76,672	76,015	16,038	213,788
57	Multi-Family Energy Efficiency			128,153	209,359	208,610	41,152	587,274
58	My Home Energy Report			3,641,670	-	-	-	3,641,670
59	Energy Assessments			84,808	150,158	157,129	33,169	425,264
60	Total Lost Revenues			\$ 5,255,750	\$ 3,081,973	\$ 3,175,509	\$ 745,549	\$ 12,258,781
61	Found Residential Revenue			-	-	-	-	-
62	Net Lost Residential Revenue			\$ 5,255,750	\$ 3,081,973	\$ 3,175,509	\$ 745,549	\$ 12,258,781
Non-Residential								
63	Non Residential Smart Saver Custom Technical Assessments			\$ 98,727	\$ 147,311	\$ 146,303	\$ 22,021	\$ 414,362
64	Non Residential Smart Saver Custom			346,582	489,807	505,535	64,615	1,406,538
65	Non Residential Smart Saver Energy Efficient Food Service Products			5,578	8,350	16,296	1,265	31,490
66	Non Residential Smart Saver Energy Efficient HVAC Products			29,059	50,322	58,501	9,738	147,620
67	Non Residential Smart Saver Energy Efficient Lighting Products			2,276,326	3,829,612	3,290,258	714,733	10,110,930
68	Non Residential Energy Efficient Pumps and Drives Products			9,540	19,793	14,034	4,671	48,038
69	Non Residential Energy Efficient ITEE			20	34	40	6	99
70	Non Residential Energy Efficient Process Equipment Products			4,423	15,012	13,895	4,803	38,132
71	Non Residential Smart Saver Performance Incentive			-	-	-	-	-
72	Small Business Energy Saver			832,006	1,623,149	1,781,203	366,239	4,602,597
73	Smart Energy in Offices			73,273	27,109	-	-	100,382
74	EnergyWise for Business			-	-	38,661	-	38,661
75	Business Energy Report			13,042	38,047	-	11,565	62,653
76	Total Lost Revenues			\$ 3,688,576	\$ 6,248,546	\$ 5,864,726	\$ 1,199,656	\$ 17,001,503
77	Found Non-Residential Revenue			-	-	-	-	-
78	Net Lost Residential Revenue			3,688,576	6,248,546	5,864,726	1,199,656	17,001,503

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-xx-E
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 11 Exhibit 1, Page 4

Year 2018		2015	2016	2017	2018 (1/2 year) ^(a)		2019	2020	Total	
Residential										
79	Appliance Recycling				\$	-	\$	-	\$	-
80	Energy Efficiency Education Program for Schools					38,804		110,566		227,135
81	Energy Efficient Appliances and Devices					1,526,092		1,630,729		3,355,124
82	Residential – Smart \$aver Energy Efficiency Program					43,947		52,279		83,795
83	Income Qualified Energy Efficiency and Weatherization Assistance					51,671		103,074		78,598
84	Multi-Family Energy Efficiency					113,828		308,061		169,073
85	My Home Energy Report					3,890,220		-		-
86	Energy Assessments					76,345		136,229		136,975
87	Total Lost Revenues				\$	5,740,907	\$	2,340,939	\$	3,901,331
88	Found Residential Revenue					-		-		-
89	Net Lost Residential Revenue				\$	5,740,907	\$	2,340,939	\$	3,901,331
Non-Residential		2015	2016		2018 (1/2 year) ^(a)		2019	2020	Total	
90	Non Residential Smart Saver Custom Technical Assessments				\$	1,799	\$	248,320	\$	1,961
91	Non Residential Smart Saver Custom					130,273		1,048,797		355,021
92	Non Residential Smart Saver Energy Efficient Food Service Products					7,117		10,033		30,531
93	Non Residential Smart Saver Energy Efficient HVAC Products					18,870		62,468		49,225
94	Non Residential Smart Saver Energy Efficient Lighting Products					1,851,457		1,161,935		3,027,850
95	Non Residential Energy Efficient Pumps and Drives Products					1,940		31,949		10,712
96	Non Residential Energy Efficient ITEE					69		53,766		304
97	Non Residential Energy Efficient Process Equipment Products					2,580		3,434		4,989
98	Non Residential Smart Saver Performance Incentive					4,071		169,761		24,494
99	Small Business Energy Saver					453,154		1,354,356		875,471
100	Smart Energy in Offices					19,846		-		-
101	EnergyWise for Business					32,831		23,250		55,723
102	Business Energy Report					-		-		-
103	Total Lost Revenues				\$	2,524,007	\$	4,168,069	\$	4,436,280
104	Found Non-Residential Revenue					-		-		-
105	Net Lost Residential Revenue					2,524,007		4,168,069		4,436,280

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-xx-E
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 11, Exhibit 1 Page 5

Year 2019		2015	2016	2017	2018	2019 (1/2 year) ^(a)	2020	Total
Residential								
106	Energy Efficiency Education Program for Schools					50,314	111,646	161,960
107	Energy Efficient Appliances and Devices					918,462	1,550,572	2,469,034
108	Residential – Smart \$aver Energy Efficiency Program					54,686	66,358	121,043
109	Income Qualified Energy Efficiency and Weatherization Assistance					45,898	85,247	131,145
110	Multi-Family Energy Efficiency					214,215	395,381	609,596
111	My Home Energy Report					5,369,925	-	5,369,925
112	Energy Assessments					77,065	117,340	194,404
113	Total Lost Revenues					\$ 6,730,566	\$ 2,326,543	\$ 9,057,109
114	Found Residential Revenue					-	-	-
115	Net Lost Residential Revenue					\$ 6,730,566	\$ 2,326,543	\$ 9,057,109
Non-Residential		2015	2016		2018	2019 (1/2 year) ^(a)	2020	Total
116	Non Residential Smart Saver Custom Technical Assessments					\$ 69,778	\$ 157,357	\$ 227,135
117	Non Residential Smart Saver Custom					417,092	1,005,339	1,422,431
118	Non Residential Smart Saver Energy Efficient Food Service Products					127,411	121,683	249,095
119	Non Residential Smart Saver Energy Efficient HVAC Products					173,259	308,663	481,922
120	Non Residential Smart Saver Energy Efficient Lighting Products					1,433,533	2,562,968	3,996,501
121	Non Residential Energy Efficient Pumps and Drives Products					80,276	243,886	324,162
122	Non Residential Energy Efficient ITEE					82,559	146,236	228,795
123	Non Residential Energy Efficient Process Equipment Products					12,856	32,352	45,208
124	Non Residential Smart Saver Performance Incentive					147,714	282,313	430,027
125	Small Business Energy Saver					590,741	1,030,491	1,621,232
126	EnergyWise for Business					23,424	38,095	61,519
127	Total Lost Revenues					\$ 3,158,643	\$ 5,929,385	\$ 9,088,028
128	Found Non-Residential Revenue					-	-	-
129	Net Lost Residential Revenue					3,158,643	5,929,385	9,088,028

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2020
Docket Number 2019-xx-E
South Carolina Lost Revenues Vintage Year 2014-2020

Rider 11, Exhibit 1 Page 6

Year 2020		2015	2016	2017	2018	2019	2020 (1/2 year) ^(a)	Total
Residential								
130	Energy Efficiency Education Program for Schools						60,461	60,461
131	Energy Efficient Appliances and Devices						453,107	453,107
132	Residential – Smart \$aver Energy Efficiency Program						102,961	102,961
133	Income Qualified Energy Efficiency and Weatherization Assistance						47,449	47,449
134	Multi-Family Energy Efficiency						220,366	220,366
135	My Home Energy Report						5,247,250	5,247,250
136	Energy Assessments						71,224	71,224
137	Total Lost Revenues						\$ 6,202,817	\$ 6,202,817
138	Found Residential Revenue						-	-
139	Net Lost Residential Revenue						6,202,817	6,202,817
Non-Residential								
140	Non Residential Smart Saver Custom Technical Assessments						\$ 68,339	\$ 68,339
141	Non Residential Smart Saver Custom						517,338	517,338
142	Non Residential Smart Saver Energy Efficient Food Service Products						20,943	20,943
143	Non Residential Smart Saver Energy Efficient HVAC Products						13,386	13,386
144	Non Residential Smart Saver Energy Efficient Lighting Products						675,353	675,353
145	Non Residential Energy Efficient Pumps and Drives Products						23,354	23,354
146	Non Residential Energy Efficient ITEE						1,515	1,515
147	Non Residential Energy Efficient Process Equipment Products						2,732	2,732
148	Non Residential Smart Saver Performance Incentive						173,172	173,172
149	Small Business Energy Saver						408,362	408,362
150	EnergyWise for Business						22,928	22,928
151	Total Lost Revenues						\$ 1,927,422	\$ 1,927,422
152	Found Non-Residential Revenue						-	-
153	Net Lost Residential Revenue						1,927,422	1,927,422

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Rider 11 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2019
Docket Number 2019-xx-E
DSM/EE Actual Revenues Collected from Years 2015 - 2018 (By Vintage)
and Estimated 2019 Collections from Rider 10 (By Vintage)

Line			Actual	Actual	Actual	Actual	Actuals	Estimated	Total Revenue Estimated Collected through 2019
			2015	2016	2017	2018		2019	
	New Mechanism		Rider 6	Rider 7	Rider 8	Rider 9	Total	Rider 10	
	Residential								
1	EE and DSM	2015	16,272,294	5,212,244	3,566,456	2,555,389	27,606,383	141,325	27,747,708
2	EE and DSM	2016		18,936,713	4,209,049	8,640,262	31,786,024	1,848,972	33,634,996
3	EE and DSM	2017			22,373,744	1,734,312	24,108,055	13,814,256	37,922,311
4	EE and DSM	2018				31,444,916	31,444,916	2,340,939	33,785,855
5	EE and DSM	2019					-	28,687,449	28,687,449
6	Interest	2015			355,176	167,752	522,928	58,748	581,676
7	Interest	2016			-	729,500	729,500	237,555	967,055
8	Interest	2017					-	934,494	934,494
	Non-Residential								
9	EE	2015	5,475,152	4,020,808	9,438,922	1,828,265	20,763,147	1,872,527	22,635,674
10	EE	2016		14,145,231	5,235,479	11,569,790	30,950,500	2,272,717	33,223,217
11	EE	2017			17,081,335	4,428,890	21,510,225	28,326,436	49,836,661
12	EE	2018				20,670,345	20,670,345	5,435,606	26,105,951
13	EE	2019					-	22,270,253	22,270,253
14	EE Interest	2015			1,046,313	378,146	1,424,459	209,721	1,634,180
15	EE Interest	2016			-	1,152,892	1,152,892	329,720	1,482,612
16	EE Interest	2017					-	1,941,096	1,941,096
17	DSM	2015	5,257,163	1,409,288	579,530	87,728	7,333,709	143,168	7,476,877
18	DSM	2016		5,730,973	687,354	37,334	6,455,661	30,792	6,486,453
19	DSM	2017			6,368,636	137,133	6,505,770	631,848	7,137,618
20	DSM	2018				6,299,502	6,299,502	313,603	6,613,105
21	DSM	2019					-	7,209,874	7,209,874
22	DSM Interest	2015			178,893	32,129	211,022	18,364	229,386
23	DSM Interest	2016			-	54,403	54,403	2,981	57,384
24	DSM Interest	2017					-	66,055	66,055
25	Total Revenue Collected		27,004,609	61,299,043	71,275,035	91,948,686	81,837,397	119,186,437	359,470,994

¹ Actual 2015, 2016 and 2017 Revenue Source: Rider 10 Exhibit 2 Docket 2018-72-E as filed in conjunction with the Office of Regulatory Staff's review of Duke Energy Carolinas, LLC Application for Approval of Rider 10.

² Estimated 2019 Revenue Source: R10 Exh 2 page 2.

In order to calculate interest properly, the component of interest that is estimated to be collected related to prior year collection of revenues has been segregated from the revenue requirement.

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-XX-E
Forecasted kWh Sales for Years 2015-2020

Fall 2018 Sales Forecast - kWhs

Adjusted SC Retail Sales Forecast (excludes Greenwood sales)		2020 Sales	Factor to Exclude Greenwood Sales from Forecast	2018 MWh Usage	Percent to Total
1 Residential	Company Records	6,454,573,005	Total SC Residential Sales	6,953,474	
2 Factor to exclude Greenwood	see calc. to right	99.33056%	Greenwood Residential Sales	46,549	
3 Residential sales excluding Greenwood	Line 1*Line 2	6,411,363,511	SC Residential Sales excluding Greenwood	6,906,924	99.33056%
4 Non-Residential (excluding lighting)	Company Records	15,139,896,798	Total SC Non-Residential Sales (excluding lighting)	14,965,058	
5 Factor to exclude Greenwood	see calc. to right	99.97413%	Greenwood Non-Residential Sales (exc. lighting)	3,872	
6 Non-Residential sales excluding Greenwood	Line 4*Line 5	15,135,980,107	SC Non-Residential Sales excluding Greenwood	14,961,186	99.97413%
7 Total Retail sales excluding Greenwood	Line 3 + Line 6	21,547,343,618	Total SC Retail Sales (excluding lighting)	21,918,532	
			Greenwood Retail Sales (excluding lighting)	50,421	
			SC Retail Sales excluding Greenwood (exc. lighting)	21,868,110	

Opt Out Sales

	Total Retail Sales	Less: Opt Outs	Net Retail Sales
Year 2015			
8 EE	15,135,980,107	9,824,240,223	5,311,739,884
9 DSM	15,135,980,107	9,107,406,897	6,028,573,210
Year 2016			
10 EE	15,135,980,107	10,115,080,343	5,020,899,764
11 DSM	15,135,980,107	9,184,643,284	5,951,336,823
Year 2017			
12 EE	15,135,980,107	10,211,024,604	4,924,955,503
13 DSM	15,135,980,107	9,184,643,284	5,951,336,823
Year 2018			
14 EE	15,135,980,107	10,257,713,985	4,878,266,122
15 DSM	15,135,980,107	9,169,736,147	5,966,243,960
Year 2019			
16 EE	15,135,980,107	10,292,065,354	4,843,914,753
17 DSM	15,135,980,107	9,171,114,347	5,964,865,760
Year 2020			
18 EE	15,135,980,107	10,292,065,354	4,843,914,753
19 DSM	15,135,980,107	9,171,114,347	5,964,865,760

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2019-XX-E
Forecasted kWh Net Metering Impacts for Year 2020

Summary:

SC Residential customers participating in the net Metering program are being charged a solar access fee. This fee includes a component of EE recovery.

Non-residential customers participating in the net Metering program are assumed to be opted out of the EE programs and their fee does not include an EE component.

Revenue collected as a part of this solar access fee will offset the revenue requirement of the EE rider.

Since revenue collected is not assigned a vintage, it will be subtracted from the total revenue requirement requested on Exhibit A.

[illegible]

Residential

NOTE A: Docket 2013-59-E

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-XX-E
Residential Interest Calculation - Year 2017 - 2018

Residential

Year 2017		2017	2018	2019	Total
1 Revenue Requirement	Year 2017 Exhibit 1	\$ 30,462,648	\$ 3,973,028	3,175,509	\$ 37,611,185
2 Revenue Collections	Rider 11, Exhibit 2	22,373,744	1,734,312	13,814,256	Note B 37,922,311
3 (Over) / Under Collection	Line 1 - Line 2	8,088,905	2,238,716		10,327,621
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	8,088,905	10,327,621	10,327,621	
5 Average Balance (Over)/Under Collection		4,044,452	9,208,263	10,327,621	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782	
7 Number of Months		12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 280,620	\$ 638,906	\$ 716,572	\$ 1,636,098
9 Interest Paid (Returned) in Prior Rider	N/A				930,320
10 Interest Due - Rider 10	Line 8 - Line 9				\$ 705,778
11 Gross Receipts Tax					1.004450
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11				\$ 708,919
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 11 Exhibit.

Year 2018		2018	2019	Total
1 Revenue Requirement	Year 2017 Exhibit 1	\$ 36,652,723	2,340,939	\$ 38,993,662
2 Revenue Collections	Rider 11, Exhibit 2	31,444,916	2,340,939	Note B 33,785,855
3 (Over) / Under Collection	Line 1 - Line 2	5,207,807	-	5,207,807
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	5,207,807	5,207,807	
5 Average Balance (Over)/Under Collection		2,603,904	5,207,807	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	
7 Number of Months		12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 180,669	\$ 361,339	\$ 542,008
9 Interest Paid (Returned) in Prior Rider	N/A			-
10 Interest Due - Rider 10	Line 8 - Line 9			\$ 542,008
11 Gross Receipts Tax				1.004450
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11			\$ 544,420
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 2 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 11 Exhibit 2.

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-xx-E
Non-Residential Interest Calculation Year 2015

Non-Residential

Year 2015 - Energy Efficiency		2015	2016	2017	2018	2019	Total
1 Revenue Requirement before interest	Year 2015 Exhibit 1	\$ 15,997,437	\$ 3,147,757	\$ 2,221,098	\$ 1,188,315		\$ 22,554,607
2 Revenue Collections	Rider 10, Exhibit 2	5,475,152	4,020,808	9,438,922	1,828,265	1,872,527	22,635,674
3 (Over) / Under Collection	Line 1 - Line 2	10,522,284	(873,051)	(7,217,824)	(639,950)	(1,872,527)	(81,067)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	10,522,284	9,649,234	2,431,410	1,791,460	(81,067)	
5 Average Balance (Over)/Under Collection		5,261,142	10,085,759	6,040,322	2,111,435	855,196	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 365,039	\$ 699,790	\$ 419,102	\$ 146,500	\$ 59,337	\$ 1,689,768
9 Interest Paid (Returned) in prior rider	R9 Exh 2 Line 13						1,633,243
10 Interest Due - Rider 10	Line 8 - Line 9						\$ 56,525
11 Gross Receipts Tax							1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ 56,776
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

Year 2015 - DSM		2015	2016	2017	2018	2019	Total
14 Revenue Requirement before interest	Year 2015, Exhibit 1	\$ 7,467,622	\$ -				\$ 7,467,622
15 Revenue Collections	Rider 10, Exhibit 2	5,257,163	1,409,288	579,530	87,728	143,168	7,476,877
16 (Over) / Under Collection	Line 14 - Line 15	2,210,459	(1,409,288)	(579,530)	(87,728)	(143,168)	(9,255)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	2,210,459	801,170	221,640	133,913	(9,255)	
18 Average Balance (Over)/Under Collection		1,105,229	1,505,815	511,405	177,776	62,329	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 76,685	\$ 104,479	\$ 35,483	\$ 12,335	\$ 4,325	233,307
22 Interest Paid (Returned) in Prior Rider	R9 Exh 2 Line 20						229,304
23 Interest Due - Rider 10	Line 21 - Line 22						\$ 4,004
24 Gross Receipts Tax							1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24						\$ 4,021
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-xx-E
Non-Residential Interest Calculation Year 2016

Non-Residential

Year 2016 - Energy Efficiency		2016	2017	2018	2019	Total
1 Revenue Requirement before interest	Year 2016 Exhibit 1	\$ 25,816,275	\$ 3,007,387	\$ 3,362,782	\$ 1,806,744	\$ 33,993,189
2 Revenue Collections	Rider 11, Exhibit 2	14,145,231	5,235,479	11,569,790	2,272,717	33,223,217
3 (Over) / Under Collection	Line 1 - Line 2	11,671,044	(2,228,092)	(8,207,007)	(465,973)	769,971
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	11,671,044	9,442,952	1,235,944	769,971	
5 Average Balance (Over)/Under Collection		5,835,522	10,556,998	5,339,448	1,002,958	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 404,892	\$ 732,487	\$ 370,472	\$ 69,589	\$ 1,577,440
9 Interest Paid (Returned) in prior rider	N/A					1,481,139
10 Interest Due - Rider 10	Line 8 - Line 9					\$ 96,301
11 Gross Receipts Tax						1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11					\$ 96,730
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E
NOTE B: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed 2019 collection on Rider 11 Exhibit 2.

Year 2016 - DSM		2016	2017	2018	2019	Total
14 Revenue Requirement before interest	Year 2016, Exhibit 1	\$ 6,480,381	\$ -			\$ 6,480,381
15 Revenue Collections	Rider 11, Exhibit 2	5,730,973	687,354	37,334	30,792	6,486,453
16 (Over) / Under Collection	Line 14 - Line 15	749,408	(687,354)	(37,334)	(30,792)	(6,072)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	749,408	62,054	24,720	(6,072)	
18 Average Balance (Over)/Under Collection		374,704	405,731	43,387	9,324	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 25,998	\$ 28,151	\$ 3,010	\$ 647	57,807
22 Interest Paid (Returned) in Prior Rider	N/A					57,371
23 Interest Due - Rider 10	Line 21 - Line 22					\$ 436
24 Gross Receipts Tax						1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24					\$ 438
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E
NOTE B: Estimated 2018 revenue included at revised requested amount shown on Rider 10 Exhibit 2, page 1 of 3.

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-xx-E
Non-Residential Interest Calculation Year 2017

Non-Residential

Year 2017 - Energy Efficiency		2017	2018	2019	Total
1 Revenue Requirement before interest	Year 2017 Exhibit 1	\$ 33,701,645	\$ 11,296,323	\$ 5,864,726	\$ 50,862,694
2 Revenue Collections	Rider 11, Exhibit 2	17,081,335	4,428,890	28,326,436	49,836,661
3 (Over) / Under Collection	Line 1 - Line 2	16,620,310	6,867,433	(22,461,710)	1,026,033
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	16,620,310	23,487,743	1,026,033	
5 Average Balance (Over)/Under Collection		8,310,155	20,054,027	12,256,888	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 576,592	\$ 1,391,429	\$ 850,432	\$ 2,818,452
9 Interest Paid (Returned) in prior rider	N/A				1,932,425
10 Interest Due - Rider 10	Line 8 - Line 9				\$ 886,027
11 Gross Receipts Tax					1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11				\$ 889,970
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E
NOTE B: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection at on Rider 11 Exhibit 2.

Year 2017 - DSM		2017	2018	2019	Total
14 Revenue Requirement before interest	Year 2017, Exhibit 1	\$ 7,000,484			\$ 7,000,484
15 Revenue Collections	Rider 10, Exhibit 2	6,368,636	137,133	631,848	7,137,618
16 (Over) / Under Collection	Line 14 - Line 15	631,848	(137,133)	(631,848)	(137,133)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	631,848	494,715	(137,133)	
18 Average Balance (Over)/Under Collection		315,924	563,281	178,791	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 21,920	\$ 39,083	\$ 12,405	73,408
22 Interest Paid (Returned) in Prior Rider	N/A				65,760
23 Interest Due - Rider 10	Line 21 - Line 22				\$ 7,648
24 Gross Receipts Tax					1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24				\$ 7,682
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E
NOTE B: Estimated 2019 revenue included at requested amount on Rider 11 Exhibit 2.

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-xx-E
Non-Residential Interest Calculation Year 2018

Non-Residential

Year 2018 - Energy Efficiency		2018	2019	Total
1 Revenue Requirement before interest	Year 2018 Exhibit 1	\$ 23,444,929	\$ 4,168,069	\$ 27,612,998
2 Revenue Collections	Rider 11, Exhibit 2	20,670,345	5,435,606	26,105,951
3 (Over) / Under Collection	Line 1 - Line 2	2,774,584	(1,267,537)	1,507,047
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	2,774,584	1,507,047	
5 Average Balance (Over)/Under Collection		1,387,292	2,140,816	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	
7 Number of Months		12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 96,256	\$ 148,538	\$ 244,794
9 Interest Paid (Returned) in prior rider	N/A			-
10 Interest Due - Rider 10	Line 8 - Line 9			\$ 244,794
11 Gross Receipts Tax				1.00445
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11			\$ 245,884
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 2 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 11 Exhibit 2.

Year 2018 - DSM		2018	2018	Total
14 Revenue Requirement before interest	Year 2018, Exhibit 1	\$ 7,613,777		\$ 7,613,777
15 Revenue Collections	Rider 11, Exhibit 2	6,299,502	313,603	6,613,105
16 (Over) / Under Collection	Line 14 - Line 15	1,314,275	(313,603)	1,000,672
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	1,314,275	1,000,672	
18 Average Balance (Over)/Under Collection		657,138	1,157,474	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	
20 Number of Months		12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 45,595	\$ 80,310	125,905
22 Interest Paid (Returned) in Prior Rider	N/A			-
23 Interest Due - Rider 10	Line 21 - Line 22			\$ 125,905
24 Gross Receipts Tax				1.00445
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24			\$ 126,465
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated 2019 revenue included at requested amount on Rider 11 Exhibit 2.